Kansas: Wind & Prairie **Wind Resources** Republic Washington Nemaha Doniphan Atchisor Jackson Pottawatomie leffersor Ottawa Lincoli Morris liswort Frankli Mario 1cPherson Rice Anderson eenwoo Harvey

Map compilation by the Kansas Geological Survey (KGS), University of Kansas, December, 2003.

Iniversity of Kansas, December, 2003.

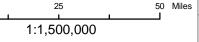
Data sources:

1. Base map (county boundaries) - TIGER 2000, US Census Bureau

2. Wind resources - Coriolis, 2003

Kingman

The map frame shows an excerpt from the "Kansas Wind Resource Map" published by Coriolis and the Kansas Corporation Commission. For more information regarding this data, visit the Coriolis web site at http://www.coriolis-ae.com/kswindmap. "The resource estimates have NOT been validated by the National Renewable Energy Laboratory (NREL), or independent meteorologists. All wind energy projects should confirm wind resources by direct measurements in accordance with wind energy industry standards." (Coriolis, 2003)



Chautauqua



Legend	
Kansas Cities	Electric Transmission Lines
□ KS cities > 25K pop	Voltage in KW
Kansas Highways	34.50
State Route	69,00
US Route	115.00
Interstate Route	138.00
Meteorological Site	161.00
★ NWS	230,00
★ FAA	345.00
★ UWIG	; *

Woodson

Wilson

(m/s)

Class 3: 6.40 - 7.00 14.3 - 15.7

Class 4: 7.00 - 7.50 15.7 - 16.8

Class 5: 7.50 - 8.00 16.8 - 17.9

Class 6: 8.00 - 8.80 17.9 - 19.7

> 8.80 > 19.7

"Power classes in the legend are based on the average speed and Weibull k value of 2.0, but not all locations will have the same power class for a given wind speed." (Coriolis, 2003)

(mph)

0 - 12.5

12.5 - 14.3

Wind speed at 50M

Class 1: 0.00 - 5.60

Class 2: 5.60 - 6.40

Class 7:

Neos

Wind Power Density

at 50 m W/m^2

0 - 200

200 - 300

300 - 400

400 - 500

500 - 600

600 - 700

> 700

Citation: Coriolis and Kansas Corporation Commission (KCC), 2003, Kansas Wind Resource Map, Coriolis and KCC.